## IN THE CLAIMS:

- 1. (Currently Amended) A Lantibiotic Display Peptide comprising a chimeric polypeptide comprising a lantibiotic peptide, an amino acid spacer attached to the C-terminus of the lantibiotic peptide, and a subtilin leader segment attached to the spacer comprising amino acid residues selected from the group consisting of residues 58-81 of SEQ ID No. 2, residues 68-81 of SEQ ID No. 2, and residues 78-81 of SEQ ID No. 2, and wherein the lantibiotic peptide is sublancin 168 comprising amino acid residues 1-38 of SEQ ID No. 2.
- 2. (Original) The Lantibiotic Display Peptide of claim 1, wherein the lantibiotic peptide is obtained from Bacillus subtilis.
- 3. (Original) The Lantibiotic Display Peptide of claim 2, wherein the lantibiotic peptide is obtained from Bacillus subtilis strain 168.
  - 4. (Canceled)
- 5. (Original) The Lantibiotic Display Peptide of claim 1, wherein the spacer comprises from 15-25 amino acid residues.
- 6. (Original) The Lantibiotic Display Peptide of claim 1, wherein the spacer comprises about 20 amino acid residues.
- 7. (Original) The Lantibiotic Display Peptide of claim 1, wherein the subtilin leader segment comprises amino acid residues 58-81 of SEQ ID No. 2.
- 8. (Original) The Lantibiotic Display Peptide of claim 1, wherein the subtilin leader segment comprises amino acid residues 68-81 of SEQ ID No. 2.
- 9. (Original) The Lantibiotic Display Peptide of claim 1, wherein the subtilin leader segment comprises amino acid residues 78-81 of SEQ ID No. 2.

- 10. (Withdrawn) A mutagenesis vector comprising a subcloning region and a polynucleotide comprising SEQ ID No. 1, wherein the polynucleotide is located within the subcloning region of the vector.
- 11. (Withdrawn) The mutagenesis vector of claim 10, wherein a nucleotide sequence of SEQ ID No. 2 is subcloned into the polynucleotide comprising SEQ ID No. 1.
- 12. (Withdrawn) A host cell comprising a recombinant insertion comprising an EcoRI-HindIII, 5.7kb nucleotide insert from a pLPHe plasmid according to Figure 5.
  - 13. (Withdrawn) The host cell of claim 12, wherein the cell is Bacillus subtilis.
- 14. (Withdrawn) A method for expressing a Lantibody Display Peptide on a surface of a host cell comprising the steps of:
  - a) providing a host strain;
  - b) providing a vector comprising a gene encoding the lantibody display peptide;
  - c) transfecting the host cell with the vector;
  - d) selecting a transfected host cell; and
  - d) identifying a cell expressing the Lantibody Display Peptide.
- 15. (Withdrawn) A method for expressing a Lantibody Display Peptide on a surface of a host cell of claim 12 comprising the steps of:
- a) linearizing a mutagenesis vector comprising a nucleotide insert encoding the Lantibody Display Peptide of SEQ ID No. 2 subcloned within a nucleotide insert of SEQ ID No. 1;
  - b) transfecting the host cell with a linearized vector of a);

- c) selecting the host cell having a chromosomally integrated nucleotide insert of SEQ ID No. 2 by growing the cell in selection medium; and
- d) identifying the cell expressing the Lantibody Display Peptide by measuring binding of the Lantibody Display Peptide to a target molecule.
- 16. (Withdrawn) The method of claim 15, wherein the host cell is Bacillus subtilis strain 168.
- 17. (Withdrawn) The method of claim 15, wherein the target molecule comprises a nucleophilic group.
- 18. (Withdrawn) The method of claim 17, wherein the nucleophilic group is located within an antigen, an antibody, a virus particle, a bacterial cell, a bacterial spore, a vegetative bacterial cell, or a protein or peptide on any of the aforementioned molecules.
- 19. (Withdrawn) A method for identifying a Lantibody Display Peptide expressed on a host cell surface having the ability to bind to a target molecule, comprising providing a host cell expressing a Lantibody Display Peptide on the host cell surface, mixing the host cell with a target molecule, detecting binding of the target molecule to the Lantibody Display Peptide with an antibody, isolating the host cell by a means recognizing the antibody, and purifying and sequencing the Lantibody Display Peptide expressed on the host cell surface.

- 20. (Withdrawn) A kit for identifying a target molecule for a Lantibody Display Peptide comprising
  - a) a cell expressing the Lantibody Display Peptide in its cell surface;
  - b) an anti-lantibody antibody; and
  - c) a means for immunoadsorption.